

Dialog 10/031,410
LLM 2/26/2006

Trying 31060000009999...Open

DIALOG INFORMATION SERVICES

PLEASE LOGON:

***** HHHHHHHH SSSSSSSS? ### Status: Signing onto Dialog *****

ENTER PASSWORD:

***** HHHHHHHH SSSSSSSS? *****

Password incorrect

DIALOG INFORMATION SERVICES

PLEASE LOGON:

***** HHHHHHHH SSSSSSSS? ### Status: Login failed

You are now logged off

Connection stopped

You are now logged offTrying 31060000009999...Open

DIALOG INFORMATION SERVICES

PLEASE LOGON:

***** HHHHHHHH SSSSSSSS? ### Status: Signing onto Dialog *****

ENTER PASSWORD:

***** HHHHHHHH SSSSSSSS? *****

Status: Login successfulWelcome to DIALOG

Dialog level 05.10.03D

Last logoff: 23feb06 14:26:38

Logon file405 26feb06 14:52:13

*** ANNOUNCEMENT ***

NEW FILES RELEASED

***Index Chemicus (File 302)

***Inspec (File 202)

***Physical Education Index (File 138)

RELOADS COMPLETED

*** The 2005 reload of the CLAIMS files (Files 340, 341, 942)

is now available online.

RESUMED UPDATING

***ERIC (File 1)

Chemical Structure Searching now available in Prous Science Drug Data Report (F452), Prous Science Drugs of the Future (F453), IMS R&D Focus (F445/955), Pharmaprojects (F128/928), Beilstein Facts (F390), Derwent Chemistry Resource (F355) and Index Chemicus (File 302).

>>> Enter BEGIN HOMEBASE for Dialog Announcements <<<

>>> of new databases, price changes, etc. <<<

* * *

SYSTEM:HOME

Cost is in DialUnits

Menu System II: D2 version 1.7.9 term=ASCII

*** DIALOG HOMEBASE(SM) Main Menu ***

Information:

1. Announcements (new files, reloads, etc.)
2. Database, Rates, & Command Descriptions
3. Help in Choosing Databases for Your Topic
4. Customer Services (telephone assistance, training, seminars, etc.)

5. Product Descriptions

Connections:

6. DIALOG(R) Document Delivery
7. Data Star(R)

(c) 2003 Dialog, a Thomson business. All rights reserved.

/H = Help

/L = Logoff

/NOMENU = Command Mode

Enter an option number to view information or to connect to an online service. Enter a BEGIN command plus a file number to search a database (e.g., B1 for ERIC).

?

Terminal set to DLINK

*** DIALOG HOMEBASE(SM) Main Menu ***

Information:

1. Announcements (new files, reloads, etc.)
2. Database, Rates, & Command Descriptions
3. Help in Choosing Databases for Your Topic
4. Customer Services (telephone assistance, training, seminars, etc.)
5. Product Descriptions

Connections:

6. DIALOG(R) Document Delivery
7. Data Star(R)

(c) 2003 Dialog, a Thomson business.. All rights reserved.

/H = Help

/L = Logoff

/NOMENU = Command Mode

Enter an option number to view information or to connect to an online service. Enter a BEGIN command plus a file number to search a database (e.g., B1 for ERIC).

? b biosci

```
>>>          44 is unauthorized
>>>          76 is unauthorized
>>>2 of the specified files are not available
      26feb06 14:52:17 User276741 Session D102.1
      $0.00    0.214 DialUnits FileHomeBase
      $0.00 Estimated cost FileHomeBase
      $0.02 TELNET
      $0.02 Estimated cost this search
      $0.02 Estimated total session cost    0.214 DialUnits
```

SYSTEM:OS - DIALOG OneSearch

- File 5:Biosis Previews(R) 1969-2006/Feb W3
(c) 2006 BIOSIS
- File 24:CSA Life Sciences Abstracts 1966-2006/Jan
(c) 2006 CSA.
- File 28:Oceanic Abstracts 1966-2006/Jan
(c) 2006 CSA.
- File 34:SciSearch(R) Cited Ref Sci 1990-2006/Feb W3
(c) 2006 Inst for Sci Info
- File 35:Dissertation Abs Online 1861-2006/Feb
(c) 2006 ProQuest Info&Learning

File 40:Enviroline(R) 1975-2005/Dec
 File 41:Pollution Abstracts 1966-2006/Jan
 (c) 2006 CSA.
 File 50:CAB Abstracts 1972-2005/Dec
 (c) 2006 CAB International
 File 65:Inside Conferences 1993-2006/Feb W3
 (c) 2006 BLDSC all rts. reserv.
 File 71:ELSEVIER BIOBASE 1994-2006/Feb W3
 (c) 2006 Elsevier Science B.V.
 File 73:EMBASE 1974-2006/Feb 24
 (c) 2006 Elsevier Science B.V.
 File 91:MANTIS(TM) 1880-2006/Feb
 2006 (c) Action Potential
 File 94:JICST-EPlus 1985-2006/Nov W4
 (c)2006 Japan Science and Tech Corp(JST)
 File 98:General Sci Abs 1984-2004/Dec
 (c) 2005 The HW Wilson Co.
 File 110:WasteInfo 1974-2002/Jul
 (c) 2002 AEA Techn Env.
***File 110: This file is closed (no updates)**
 File 135:NewsRx Weekly Reports 1995-2006/Feb W3
 (c) 2006 NewsRx
***File 135: Please see HELP NEWS135 for information on select**
journal titles.
 File 136:BioEngineering Abstracts 1966-2006/Jan
 (c) 2006 CSA.
 File 143:Biol. & Agric. Index 1983-2006/Jan
 (c) 2006 The HW Wilson Co
 File 144:Pascal 1973-2006/Jan W5
 (c) 2006 INIST/CNRS
 File 155:MEDLINE(R) 1951-2006/Feb 27
 (c) format only 2006 Dialog
***File 155: Medline has resumed updating.**
 File 164:Allied & Complementary Medicine 1984-2006/Feb
 (c) 2006 BLHCIS
 File 172:EMBASE Alert 2006/Feb 24
 (c) 2006 Elsevier Science B.V.
 File 185:Zoological Record Online(R) 1978-2006/Feb
 (c) 2006 BIOSIS
 File 357:Derwent Biotech Res. _1982-2006/Feb W3
 (c) 2006 Thomson Derwent & ISI
 File 369:New Scientist 1994-2006/Aug W4
 (c) 2006 Reed Business Information Ltd.
 File 370:Science 1996-1999/Jul W3
 (c) 1999 AAAS
***File 370: This file is closed (no updates): Use File 47 for more current**
information.
 File 391:Beilstein Reactions 2005/Q3
 (c) 2005 Beilstein GmbH
 File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
 (c) 1998 Inst for Sci Info
 File 467:ExtraMED(tm) 2000/Dec
 (c) 2001 Informania Ltd.
***File 467: F467 will close on February 1, 2006.**

7.

Set	Items	Description
?	s	((hollow (w) electrode) or (hollow (w) microelectrode) or (hollow (w) fiber (w) electrode) or (capillary (w) electrode)) and (fusion or electrofusion or (selective (w) electrofusion))
92780		HOLLOW

475441 ELECTRODE
 116 HOLLOW(W)ELECTRODE
 92780 HOLLOW
 42474 MICROELECTRODE
 0 HOLLOW(W)MICROELECTRODE
 92780 HOLLOW
 858201 FIBER
 475441 ELECTRODE
 5 HOLLOW(W)FIBER(W)ELECTRODE
 457552 CAPILLARY
 475441 ELECTRODE
 157 CAPILLARY(W)ELECTRODE
 793690 FUSION
 5773 ELECTROFUSION
 1638159 SELECTIVE
 5773 ELECTROFUSION
 5 SELECTIVE(W)ELECTROFUSION
 S1 3 ((HOLLOW (W) ELECTRODE) OR (HOLLOW (W) MICROELECTRODE) OR
 (HOLLOW (W) FIBER (W) ELECTRODE) OR (CAPILLARY (W)
 ELECTRODE)) AND (FUSION OR ELECTROFUSION OR (SELECTIVE
 (W) ELECTROFUSION))
 ? s s1 and (cell or liposome or proteoliposome or protoplast or (plant (w)
 protoplast) or vesicle or egg or sperm or hybridoma)
 3 S1
 13734914 CELL
 90092 LIPOSOME
 2666 PROTEOLIPOSOME
 49696 PROTOPLAST
 4794803 PLANT
 49696 PROTOPLAST
 819 PLANT(W)PROTOPLAST
 184839 VESICLE
 530554 EGG
 296752 SPERM
 75348 HYBRIDOMA
 S2 0 S1 AND (CELL OR LIPOSOME OR PROTEOLIPOSOME OR PROTOPLAST
 OR (PLANT (W) PROTOPLAST) OR VESICLE OR EGG OR SPERM OR
 HYBRIDOMA)
 ? t s1/free/all

1/8/1 (Item 1 from file: 34)
 DIALOG(R)File 34:(c) 2006 Inst for Sci Info. All rts. reserv.

07169976 Genuine Article#: 131BQ Number of References: 8
Title: Low-pressure pseudospark switches for ICF pulsed power (ABSTRACT
 AVAILABLE)
 Publication date: 19980921
 Journal Subject Category: NUCLEAR SCIENCE & TECHNOLOGY; PHYSICS, PARTICLES
 & FIELDS; INSTRUMENTS & INSTRUMENTATION; SPECTROSCOPY
 Descriptors--Author Keywords: pulsed power systems ; plasma switches ; gas
 discharge ; electrodes ; spectroscopy

1/8/2 (Item 1 from file: 94)
 DIALOG(R)File 94:(c)2006 Japan Science and Tech Corp(JST). All rts.
 reserv.

05323371 JICST ACCESSION NUMBER: 03A0012103 FILE SEGMENT: JICST-E
**Characteristics of Hollow Cathode Arc as Heat Source. Application of Hollow
 Cathode Arc to Welding of Aluminum Alloy., 2002**
 DESCRIPTORS: welding electrode; TIG welding; welding heat input; welding

power source; aluminum base alloy; hollow body; thorium oxide; argon; pure metal; aluminum; oxide film; thermal plasma; electron temperature; centralization; melting; crater; penetration(welding); circular cone; space environment; case study; plasma column; basic research; welding torch; negative electrode; weld shielding gas; weld bead

BROADER DESCRIPTORS: electrode; inert gas shielded arc welding; gas shielded arc welding; arc welding; electric welding; welding; bonding and joining; **fusion** welding; welding condition; condition; electric power source equipment; equipment; light alloy; nonferrous alloy; alloy; metallic material; solid(cubic); metal oxide; oxide; chalcogenide; oxygen group element compound; oxygen compound; thorium compound; actinide compound; transition metal compound; rare gas; element; third row element; metal; metallic element; 3B group element; conversion coating film; film(cover); membrane and film; plasma; plasma temperature; temperature; plasma parameter; parameter; modification; phase transition; morphology; cone; environment; research; torch; protective gas; gas; atmosphere(environment); welding material; weld metal; weld zone; joint(part); part

CLASSIFICATION CODE(S): WC07110T; WC07030G

1/8/3 (Item 2 from file: 94)

DIALOG(R) File 94:(c)2006 Japan Science and Tech Corp(JST). All rts. reserv.

02090005 JICST ACCESSION NUMBER: 94A0781129 FILE SEGMENT: JICST-E

Electrode Lifetimes in a Plasma Focus Soft X-Ray Source., 1994

DESCRIPTORS: electrode; erosion(wear); plasma focus; X-ray source; soft

X-ray; lifetime; polarity; insulating material; plasma focus device

BROADER DESCRIPTORS: erosion(corrosion); corrosion; radiation source; X-ray

; electromagnetic wave; wave motion; radioactive ray; property;

material; nuclear **fusion** device; plasma device; equipment

CLASSIFICATION CODE(S): BJ02082I

? s ((hollow (w) electrode) or (hollow (w) microelectrode) or (hollow (w) fiber (w) electrode) or (capillary (w) electrode))

92780 HOLLOW

475441 ELECTRODE

116 HOLLOW(W)ELECTRODE

92780 HOLLOW

42474 MICROELECTRODE

0 HOLLOW(W)MICROELECTRODE

92780 HOLLOW

858201 FIBER

475441 ELECTRODE

5 HOLLOW(W) FIBER (W) ELECTRODE

457552 CAPILLARY

475441 ELECTRODE

157 CAPILLARY(W)ELECTRODE

S3 278 ((HOLLOW (W) ELECTRODE) OR (HOLLOW (W) MICROELECTRODE) OR (HOLLOW (W) FIBER (W) ELECTRODE) OR (CAPILLARY (W) ELECTRODE))

? s s3 and (cell or liposome or proteoliposome or protoplast or (plant (w) protoplast) or vesicle or egg or sperm or hybridoma)

Processing

278 S3

13734914 CELL

90092 LIPOSOME

2666 PROTEOLIPOSOME

49696 PROTOPLAST

4794803 PLANT

49696 PROTOPLAST

```

      819  PLANT(W) PROTOPLAST
    184839 VESICLE
    530554 EGG
    296752 SPERM
      75348 HYBRIDOMA
S4      49  S3 AND (CELL OR LIPOSOME OR PROTEOLIPOSOME OR PROTOPLAST
          OR (PLANT (W) PROTOPLAST) OR VESICLE OR EGG OR SPERM OR
          HYBRIDOMA)
? s s4 not pd>990730
>>>File 24 processing for PD=990730 : PD=|
>>>  started at PD=19990731 stopped at PD=20050409
>>>File 34 processing for PD=990730 : PD=|
>>>  started at PD=19990731 stopped at PD=20041230
>>>One or more prefixes are unsupported
>>> or undefined in one or more files.
>>>File 71 processing for PD=990730 : PD=|
>>>  started at PD=000000 stopped at PD=050607
>>>File 73 processing for PD=990730 : PD=|
>>>  started at PD=000000 stopped at PD=050417
Processed 10 of 29 files ...
>>>File 135 processing for PD=990730 : PD=|
>>>  started at PD=19990809 stopped at PD=20060110
Processing
>>>File 144 processing for PD=990730 : PD=|
>>>  started at PD=199908 stopped at PD=2004060120040615
Completed processing all files
      49  S4
    15169500 PD>990730
S5      35  S4 NOT PD>990730
? rd

>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set.
S6      21  RD (unique items)
? s s6 and (fusion or electrofusion or (selective (w) electrofusion))
      21  S6
    793690 FUSION
    5773  ELECTROFUSION
    1638159 SELECTIVE
    5773  ELECTROFUSION
      5  SELECTIVE(W)ELECTROFUSION
S7      0  S6 AND (FUSION OR ELECTROFUSION OR (SELECTIVE (W)
          ELECTROFUSION))
? s (fusion or electrofusion or (selective (w) electrofusion)) and (cell or
liposome or proteoliposome or protoplast or (plant (w) protoplast) or vesicle
or egg or sperm or hybridoma)
Processing
Processed 10 of 29 files ...
Processing
Completed processing all files
    793690 FUSION
    5773  ELECTROFUSION
    1638159 SELECTIVE
    5773  ELECTROFUSION
      5  SELECTIVE(W)ELECTROFUSION
    13734914 CELL
    90092  LIPOSOME
    2666  PROTEOLIPOSOME
    49696  PROTOPLAST
    4794803 PLANT

```

```

49696 PROTOPLAST
819 PLANT (W) PROTOPLAST
184839 VESICLE
530554 EGG
296752 SPERM
75348 HYBRIDOMA
S8 318537 (FUSION OR ELECTROFUSION OR (SELECTIVE (W)
ELECTROFUSION)) AND (CELL OR LIPOSOME OR PROTEOLIPOSOME
OR PROTOPLAST OR (PLANT (W) PROTOPLAST) OR VESICLE OR EGG
OR SPERM OR HYBRIDOMA)
? s s8 and ((hollow (w) electrode) or (hollow (w) microelectrode) or (hollow
(w) fiber (w) electrode) or (capillary (w) electrode))
318537 S8
92780 HOLLOW
475441 ELECTRODE
116 HOLLOW (W) ELECTRODE
92780 HOLLOW
42474 MICROELECTRODE
0 HOLLOW (W) MICROELECTRODE
92780 HOLLOW
858201 FIBER
475441 ELECTRODE
5 HOLLOW (W) FIBER (W) ELECTRODE
457552 CAPILLARY
475441 ELECTRODE
157 CAPILLARY (W) ELECTRODE
S9 0 S8 AND ((HOLLOW (W) ELECTRODE) OR (HOLLOW (W)
MICROELECTRODE) OR (HOLLOW (W) FIBER (W) ELECTRODE) OR
(CAPILLARY (W) ELECTRODE))
? s s8 and ( microelectrode)
318537 S8
42474 MICROELECTRODE
S10 165 S8 AND ( MICROELECTRODE)
? s s10 not pd>990730
>>>File 24 processing for PD=990730 : PD=|
>>> started at PD=19990731 stopped at PD=20050409
>>>File 34 processing for PD=990730 : PD=|
>>> started at PD=19990731 stopped at PD=20041230
>>>One or more prefixes are unsupported
>>> or undefined in one or more files.
>>>File 71 processing for PD=990730 : PD=|
>>> started at PD=000000 stopped at PD=050607
>>>File 73 processing for PD=990730 : PD=|
>>> started at PD=000000 stopped at PD=050417
>>>File 135 processing for PD=990730 : PD=|
>>> started at PD=19990809 stopped at PD=20060110
>>>File 144 processing for PD=990730 : PD=|
>>> started at PD=199908 stopped at PD=2004060120040615
Processed 10 of 29 files ...
Processing
Completed processing all files
165 S10
15169500 PD>990730
S11 119 S10 NOT PD>990730
? s s11 and hollow
119 S11
92780 HOLLOW
S12 0 S11 AND HOLLOW
? s s11 and capillary
119 S11
457552 CAPILLARY

```

S13 1 S11 AND CAPILLARY
? t sl3/medium,

13/3/1 (Item 1 from file: 357)
DIALOG(R)File 357:Derwent Biotech Res.
(c) 2006 Thomson Derwent & ISI. All rts. reserv.

0024393 DBR Accession No.: 84-07668
**Electrical induction of cell fusion of plant protoplasts - prepared
from Rauwolfia serpentina Hordeum vulgare and Nicotiana tabacum
(conference paper)**
AUTHOR: Senda M; Morikawa H; Takeda J
CORPORATE SOURCE: Department of Agricultural Chemistry, Kyoto University,
Kyoto 606, Japan. (5 Meet., 615-16) 1982
CODEN: 9999Z
LANGUAGE: English
? t sl3/medium,k

13/K/1 (Item 1 from file: 357)
DIALOG(R)File 357:Derwent Biotech Res.
(c) 2006 Thomson Derwent & ISI. All rts. reserv.

0024393 DBR Accession No.: 84-07668
**Electrical induction of cell fusion of plant protoplasts - prepared
from Rauwolfia serpentina Hordeum vulgare and Nicotiana tabacum
(conference paper)**
AUTHOR: Senda M; Morikawa H; Takeda J
CORPORATE SOURCE: Department of Agricultural Chemistry, Kyoto University,
Kyoto 606, Japan. (5 Meet., 615-16) 1982
CODEN: 9999Z
LANGUAGE: English

Electrical induction of cell fusion of plant protoplasts
ABSTRACT: The induction of **fusion** of protoplasts and animal cells using
electric impulses will open up new aspects of, and become a new method
in, **cell fusion**. Protoplasts were isolated from cultured cells of
Rauwolfia serpentina var. Bentham and mesophyll cells of barley
(Hordeum vulgare L., Gose Shikoku) and tobacco (Nicotiana tabacum var.
Samsun) using **cell** wall-degrading enzymes. Using the **microelectrode**
method, the tips of 2 glass **capillary** microelectrodes were brought
close to the surface of 2 point-adhering protoplasts and an electrical

... of short duration was applied across the 2 microelectrodes. Using the
parallel electrode method for **fusion** of a large number of
protoplasts, the suspension was placed between 2 parallel platinum
electrodes...

... switch to a capacitor, which was charged up and then discharged through
the suspension. Electrical **fusion** is useful for studying **plant
protoplast** and **cell** membrane surfaces. (2 ref)

DESCRIPTORS: Rauwolfia serpentina, barley, tobacco **protoplast** prep.,
electrical protoplast fusion induction effect
? s s8 and ((hollow (w) electrode) or (hollow (w) microelectrode) or (hollow
(w) fiber (w) electrode) or (capillary (w) electrode) or (capillary (w)
microelectrode))

318537 S8
92780 HOLLOW
475441 ELECTRODE
116 HOLLOW(W)ELECTRODE
92780 HOLLOW


```

42474 MICROELECTRODE
0 HOLLOW(W)MICROELECTRODE
92780 HOLLOW
858201 FIBER
475441 ELECTRODE
5 HOLLOW(W) FIBER(W) ELECTRODE
457552 CAPILLARY
475441 ELECTRODE
157 CAPILLARY(W)ELECTRODE
457552 CAPILLARY
42474 MICROELECTRODE
46 CAPILLARY(W)MICROELECTRODE
S14 0 S8 AND ((HOLLOW (W) ELECTRODE) OR (HOLLOW (W)
MICROELECTRODE) OR (HOLLOW (W) FIBER (W) ELECTRODE) OR
(CAPILLARY (W) ELECTRODE) OR (CAPILLARY (W)
MICROELECTRODE))

```

? ds

Set	Items	Description
S1	3	((HOLLOW (W) ELECTRODE) OR (HOLLOW (W) MICROELECTRODE) OR - (HOLLOW (W) FIBER (W) ELECTRODE) OR (CAPILLARY (W) ELECTRODE)) AND (FUSION OR ELECTROFUSION OR (SELECTIVE (W) ELECTROFUSION-))
S2	0	S1 AND (CELL OR LIPOSOME OR PROTEOLIPOSOME OR PROTOPLAST - OR (PLANT (W) PROTOPLAST) OR VESICLE OR EGG OR SPERM OR HYBRI- DOMA)
S3	278	((HOLLOW (W) ELECTRODE) OR (HOLLOW (W) MICROELECTRODE) OR - (HOLLOW (W) FIBER (W) ELECTRODE) OR (CAPILLARY (W) ELECTRODE))
S4	49	S3 AND (CELL OR LIPOSOME OR PROTEOLIPOSOME OR PROTOPLAST - OR (PLANT (W) PROTOPLAST) OR VESICLE OR EGG OR SPERM OR HYBRI- DOMA)
S5	35	S4 NOT PD>990730
S6	21	RD (unique items)
S7	0	S6 AND (FUSION OR ELECTROFUSION OR (SELECTIVE (W) ELECTROF- USION))
S8	318537	(FUSION OR ELECTROFUSION OR (SELECTIVE (W) ELECTROFUSION)) AND (CELL OR LIPOSOME OR PROTEOLIPOSOME OR PROTOPLAST OR (PL- ANT (W) PROTOPLAST) OR VESICLE OR EGG OR SPERM OR HYBRIDOMA)
S9	0	S8 AND ((HOLLOW (W) ELECTRODE) OR (HOLLOW (W) MICROELECTRO- DE) OR (HOLLOW (W) FIBER (W) ELECTRODE) OR (CAPILLARY (W) ELE- CTRODE))
S10	165	S8 AND (MICROELECTRODE)
S11	119	S10 NOT PD>990730
S12	0	S11 AND HOLLOW
S13	1	S11 AND CAPILLARY
S14	0	S8 AND ((HOLLOW (W) ELECTRODE) OR (HOLLOW (W) MICROELECTRO- DE) OR (HOLLOW (W) FIBER (W) ELECTRODE) OR (CAPILLARY (W) ELE- CTRODE) OR (CAPILLARY (W) MICROELECTRODE))
? s6 and microchip		
	13504177	6
	9779	MICROCHIP
S15	1244	6 AND MICROCHIP
? s s15 and ((hollow (w) electrode) or (hollow (w) microelectrode) or (hollow (w) fiber (w) electrode) or (capillary (w) electrode) or (capillary (w) microelectrode))		
	1244	S15
	92780	HOLLOW
	475441	ELECTRODE
	116	HOLLOW(W)ELECTRODE
	92780	HOLLOW
	42474	MICROELECTRODE

```

0 HOLLOW(W) MICROELECTRODE
92780 HOLLOW
858201 FIBER
475441 ELECTRODE
5 HOLLOW(W) FIBER(W) ELECTRODE
457552 CAPILLARY
475441 ELECTRODE
157 CAPILLARY(W) ELECTRODE
457552 CAPILLARY
42474 MICROELECTRODE
46 CAPILLARY(W) MICROELECTRODE
S16 0 S15 AND ((HOLLOW (W) ELECTRODE) OR (HOLLOW (W)
MICROELECTRODE) OR (HOLLOW (W) FIBER (W) ELECTRODE) OR
(CAPILLARY (W) ELECTRODE) OR (CAPILLARY (W)
MICROELECTRODE))
? s6 and (electroendoosmosis or electrophoresis or poiseuille)
13504177 6
15 ELECTROENDOOSMOSIS
982448 ELECTROPHORESIS
7175 POISEUILLE
S17 168458 6 AND (ELECTROENDOOSMOSIS OR ELECTROPHORESIS OR
POISEUILLE)
? s s6 and (electroendoosmosis or electrophoresis or poiseuille)
21 S6
15 ELECTROENDOOSMOSIS
982448 ELECTROPHORESIS
7175 POISEUILLE
S18 5 S6 AND (ELECTROENDOOSMOSIS OR ELECTROPHORESIS OR
POISEUILLE)
? rd

>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set.
S19 5 RD (unique items)
? s s19 and ((hollow (w) electrode) or (hollow (w) microelectrode) or (hollow
(w) fiber (w) electrode) or (capillary (w) electrode) or (capillary (w)
microelectrode))
5 S19
92780 HOLLOW
475441 ELECTRODE
116 HOLLOW(W) ELECTRODE
92780 HOLLOW
42474 MICROELECTRODE
0 HOLLOW(W) MICROELECTRODE
92780 HOLLOW
858201 FIBER
475441 ELECTRODE
5 HOLLOW(W) FIBER(W) ELECTRODE
457552 CAPILLARY
475441 ELECTRODE
157 CAPILLARY(W) ELECTRODE
457552 CAPILLARY
42474 MICROELECTRODE
46 CAPILLARY(W) MICROELECTRODE
S20 5 S19 AND ((HOLLOW (W) ELECTRODE) OR (HOLLOW (W)
MICROELECTRODE) OR (HOLLOW (W) FIBER (W) ELECTRODE) OR
(CAPILLARY (W) ELECTRODE) OR (CAPILLARY (W)
MICROELECTRODE))
? t s20/free/all

```

20/8/1 (Item 1 from file: 34)
DIALOG(R)File 34:(c) 2006 Inst for Sci Info. All rts. reserv.

14164743 Genuine Article#: 945VL Number of References: 25
Title: Generation of focused electric field patterns at dielectric surfaces
(ABSTRACT AVAILABLE)
Publication date: 20050715
Journal Subject Category: CHEMISTRY, ANALYTICAL
Identifiers--KeyWord Plus(R): SINGLE- **CELL** ELECTROPORATION; CAPILLARY-
ELECTROPHORESIS ; MANIPULATION; BREAKDOWN; DNA; MEMBRANES; TISSUES;
CHIP

20/8/2 (Item 2 from file: 34)
DIALOG(R)File 34:(c) 2006 Inst for Sci Info. All rts. reserv.

05608475 Genuine Article#: WK383 Number of References: 21
Title: Integrated capillary electrophoresis /electrochemical detection
with metal film electrodes directly deposited onto the capillary tip (
ABSTRACT AVAILABLE)
Publication date: 19970301
Journal Subject Category: CHEMISTRY, ANALYTICAL
Identifiers--KeyWord Plus(R): PULSED AMPEROMETRIC DETECTION;
ELECTROCHEMICAL DETECTION; ZONE **ELECTROPHORESIS** ; AMINO-ACIDS;
MICROELECTRODE; GOLD

20/8/3 (Item 1 from file: 35)
01354343 ORDER NO: AAD94-14275
DEVELOPMENT OF ELECTROCHEMICAL DETECTION SCHEMES FOR CAPILLARY
ELECTROPHORESIS (AMPEROMETRIC DETECTOR)
Year: 1993

20/8/4 (Item 1 from file: 94)
DIALOG(R)File 94:(c)2006 Japan Science and Tech Corp(JST). All rts.
reserv.

05080493 JICST ACCESSION NUMBER: 02A0085598 FILE SEGMENT: JICST-E
A Handy Detection Cell for End-Column Electrochemical Detection in
Capillary Electrophoresis . , 2001
DESCRIPTORS: capillary **electrophoresis** ; amperometric detector; hand-held
type; disc electrode; voltage dependence; quantitative
analysis(analytical chemistry); dynamic range; detection limit;
measurement accuracy; microelectrode; routine analysis; **cell**
structure; trace constituent; ketose; hexose; aldose; glucoside;
pyranoside; furanoside; fructooligosaccharide; disaccharide; nitrogen
heterocyclic compound; purine nucleoside; ribonucleoside; hydroxy
compound; amino acid; aliphatic amine; aliphatic carboxylic acid;
primary amine; phenolic compound; catecholamine; aminoalcohol; polyol;
secondary amine; secondary alcohol; deoxyribonucleoside
BROADER DESCRIPTORS: **electrophoresis** ; chromatographic detector; detector;
portable type; type; electrode; dependence; analysis(separation);
analysis; transmission characteristic; characteristic; limit;
concentration(ratio); degree; accuracy; metal structure(microstructure)
; organization; structure; minor component; component; reducing sugar;
carbohydrate; glycoside; oligosaccharide; fructoside; heterocyclic
compound; nucleoside; riboside; amine; carboxylic acid; aromatic
compound; polyphenol; alcohol
CLASSIFICATION CODE(S): CC02020S; CC04011M

20/8/5 (Item 1 from file: 155)

DIALOG(R)File 155:(c) format only 2006 Dialog. All rts. reserv.

14349793 PMID: 12175183

Capillary - electrode alignment by an optical-fiber connector for
amperometric detection in capillary electrophoresis .

Aug 1 2002

Tags: Research Support, Non-U.S. Gov't

Descriptors: *Electrophoresis, Capillary--instrumentation--IS;
Catecholamines--analysis--AN; Electrochemistry; Electrodes; Electrophoresis,
Capillary--methods--MT; Equipment Design; Fiber Optics

CAS Registry No.: 0 (Catecholamines)

? s s20 and (fusion or electrofusion or (selective (w) electrofusion))

5 S20
793690 FUSION
5773 ELECTROFUSION
1638159 SELECTIVE
5773 ELECTROFUSION

5 SELECTIVE(W)ELECTROFUSION
S21 0 S20 AND (FUSION OR ELECTROFUSION OR (SELECTIVE (W)
ELECTROFUSION))

? ds

Set	Items	Description
S1	3	((HOLLOW (W) ELECTRODE) OR (HOLLOW (W) MICROELECTRODE) OR - (HOLLOW (W) FIBER (W) ELECTRODE) OR (CAPILLARY (W) ELECTRODE)) AND (FUSION OR ELECTROFUSION OR (SELECTIVE (W) ELECTROFUSION-))
S2	0	S1 AND (CELL OR LIPOSOME OR PROTEOLIPOSOME OR PROTOPLAST - OR (PLANT (W) PROTOPLAST) OR VESICLE OR EGG OR SPERM OR HYBRI- DOMA)
S3	278	((HOLLOW (W) ELECTRODE) OR (HOLLOW (W) MICROELECTRODE) OR - (HOLLOW (W) FIBER (W) ELECTRODE) OR (CAPILLARY (W) ELECTRODE))
S4	49	S3 AND (CELL OR LIPOSOME OR PROTEOLIPOSOME OR PROTOPLAST - OR (PLANT (W) PROTOPLAST) OR VESICLE OR EGG OR SPERM OR HYBRI- DOMA)
S5	35	S4 NOT PD>990730
S6	21	RD (unique items)
S7	0	S6 AND (FUSION OR ELECTROFUSION OR (SELECTIVE (W) ELECTROF- USION))
S8	318537	(FUSION OR ELECTROFUSION OR (SELECTIVE (W) ELECTROFUSION)) AND (CELL OR LIPOSOME OR PROTEOLIPOSOME OR PROTOPLAST OR (PL- ANT (W) PROTOPLAST) OR VESICLE OR EGG OR SPERM OR HYBRIDOMA)
S9	0	S8 AND ((HOLLOW (W) ELECTRODE) OR (HOLLOW (W) MICROELECTRO- DE) OR (HOLLOW (W) FIBER (W) ELECTRODE) OR (CAPILLARY (W) ELE- CTRODE))
S10	165	S8 AND (MICROELECTRODE)
S11	119	S10 NOT PD>990730
S12	0	S11 AND HOLLOW
S13	1	S11 AND CAPILLARY
S14	0	S8 AND ((HOLLOW (W) ELECTRODE) OR (HOLLOW (W) MICROELECTRO- DE) OR (HOLLOW (W) FIBER (W) ELECTRODE) OR (CAPILLARY (W) ELE- CTRODE) OR (CAPILLARY (W) MICROELECTRODE))
S15	1244	6 AND MICROCHIP
S16	0	S15 AND ((HOLLOW (W) ELECTRODE) OR (HOLLOW (W) MICROELECTR- ODE) OR (HOLLOW (W) FIBER (W) ELECTRODE) OR (CAPILLARY (W) EL- ECTRODE) OR (CAPILLARY (W) MICROELECTRODE))
S17	168458	6 AND (ELECTROENDOOSMOSIS OR ELECTROPHORESIS OR POISEUILLE)
S18	5	S6 AND (ELECTROENDOOSMOSIS OR ELECTROPHORESIS OR POISEUILL-

E)

S19 5 RD (unique items)

S20 5 S19 AND ((HOLLOW (W) ELECTRODE) OR (HOLLOW (W) MICROELECTRODE) OR (HOLLOW (W) FIBER (W) ELECTRODE) OR (CAPILLARY (W) ELECTRODE) OR (CAPILLARY (W) MICROELECTRODE))

S21 0 S20 AND (FUSION OR ELECTROFUSION OR (SELECTIVE (W) ELECTROFUSION))

? s s6 and microchip

21 S6

9779 MICROCHIP

S22 0 S6 AND MICROCHIP

? s s6 and (electroporate or electroporation or dielectrophoretic or dielectrophoresis)

21 S6

151 ELECTROPORATE

35153 ELECTROPORATION

2188 DIELECTROPHORETIC

2396 DIELECTROPHORESIS

S23 1 S6 AND (ELECTROPORATE OR ELECTROPORATION OR DIELECTROPHORETIC OR DIELECTROPHORESIS)

? s s23 and (fusion or electrofusion or (selective (w) electrofusion))

1 S23

793690 FUSION

5773 ELECTROFUSION

1638159 SELECTIVE

5773 ELECTROFUSION

5 SELECTIVE (W) ELECTROFUSION

S24 0 S23 AND (FUSION OR ELECTROFUSION OR (SELECTIVE (W) ELECTROFUSION))

? ds

Set	Items	Description
S1	3	((HOLLOW (W) ELECTRODE) OR (HOLLOW (W) MICROELECTRODE) OR (HOLLOW (W) FIBER (W) ELECTRODE) OR (CAPILLARY (W) ELECTRODE)) AND (FUSION OR ELECTROFUSION OR (SELECTIVE (W) ELECTROFUSION))
S2	0	S1 AND (CELL OR LIPOSOME OR PROTEOLIPOSOME OR PROTOPLAST OR (PLANT (W) PROTOPLAST) OR VESICLE OR EGG OR SPERM OR HYBRIDOMA)
S3	278	((HOLLOW (W) ELECTRODE) OR (HOLLOW (W) MICROELECTRODE) OR (HOLLOW (W) FIBER (W) ELECTRODE) OR (CAPILLARY (W) ELECTRODE))
S4	49	S3 AND (CELL OR LIPOSOME OR PROTEOLIPOSOME OR PROTOPLAST OR (PLANT (W) PROTOPLAST) OR VESICLE OR EGG OR SPERM OR HYBRIDOMA)
S5	35	S4 NOT PD>990730
S6	21	RD (unique items)
S7	0	S6 AND (FUSION OR ELECTROFUSION OR (SELECTIVE (W) ELECTROFUSION))
S8	318537	(FUSION OR ELECTROFUSION OR (SELECTIVE (W) ELECTROFUSION)) AND (CELL OR LIPOSOME OR PROTEOLIPOSOME OR PROTOPLAST OR (PLANT (W) PROTOPLAST) OR VESICLE OR EGG OR SPERM OR HYBRIDOMA)
S9	0	S8 AND ((HOLLOW (W) ELECTRODE) OR (HOLLOW (W) MICROELECTRODE) OR (HOLLOW (W) FIBER (W) ELECTRODE) OR (CAPILLARY (W) ELECTRODE))
S10	165	S8 AND (MICROELECTRODE)
S11	119	S10 NOT PD>990730
S12	0	S11 AND HOLLOW
S13	1	S11 AND CAPILLARY
S14	0	S8 AND ((HOLLOW (W) ELECTRODE) OR (HOLLOW (W) MICROELECTRODE) OR (HOLLOW (W) FIBER (W) ELECTRODE) OR (CAPILLARY (W) ELECTRODE) OR (CAPILLARY (W) MICROELECTRODE))

S15 1244 6 AND MICROCHIP
 S16 0 S15 AND ((HOLLOW (W) ELECTRODE) OR (HOLLOW (W) MICROELECTR-
 ODE) OR (HOLLOW (W) FIBER (W) ELECTRODE) OR (CAPILLARY (W) EL-
 ECTRODE) OR (CAPILLARY (W) MICROELECTRODE))
 S17 168458 6 AND (ELECTROENDOOSMOSIS OR ELECTROPHORESIS OR POISEUILLE)
 S18 5 S6 AND (ELECTROENDOOSMOSIS OR ELECTROPHORESIS OR POISEUILL-
 E)
 S19 5 RD (unique items)
 S20 5 S19 AND ((HOLLOW (W) ELECTRODE) OR (HOLLOW (W) MICROELECTR-
 ODE) OR (HOLLOW (W) FIBER (W) ELECTRODE) OR (CAPILLARY (W) EL-
 ECTRODE) OR (CAPILLARY (W) MICROELECTRODE))
 S21 0 S20 AND (FUSION OR ELECTROFUSION OR (SELECTIVE (W) ELECTRO-
 FUSION))
 S22 0 S6 AND MICROCHIP
 S23 1 S6 AND (ELECTROPORATE OR ELECTROPORATION OR DIELECTROPHORE-
 TIC OR DIELECTROPHORESIS)
 S24 0 S23 AND (FUSION OR ELECTROFUSION OR (SELECTIVE (W) ELECTRO-
 FUSION))

? save temp

Temp SearchSave "TD195080516" stored

? b 411

26feb06 15:10:45 User276741 Session D102.2
 \$9.64 1.635 DialUnits File5
 \$9.64 Estimated cost File5
 \$3.33 0.537 DialUnits File24
 \$3.33 Estimated cost File24
 \$0.98 0.157 DialUnits File28
 \$0.98 Estimated cost File28
 \$54.03 2.302 DialUnits File34
 \$0.00 3 Type(s) in Format 8
 \$0.00 3 Types
 \$54.03 Estimated cost File34
 \$0.83 0.202 DialUnits File35
 \$0.00 1 Type(s) in Format 6
 \$0.00 1 Types
 \$0.83 Estimated cost File35
 \$1.01 0.142 DialUnits File40
 \$1.01 Estimated cost File40
 \$0.83 0.133 DialUnits File41
 \$0.83 Estimated cost File41
 \$3.76 0.818 DialUnits File50
 \$3.76 Estimated cost File50
 \$0.52 0.138 DialUnits File65
 \$0.52 Estimated cost File65
 \$7.92 0.900 DialUnits File71
 \$7.92 Estimated cost File71
 \$19.50 1.741 DialUnits File73
 \$19.50 Estimated cost File73
 \$0.41 0.095 DialUnits File91
 \$0.41 Estimated cost File91
 \$2.12 0.605 DialUnits File94
 \$0.00 3 Type(s) in Format 8
 \$0.00 3 Types
 \$2.12 Estimated cost File94
 \$1.23 0.288 DialUnits File98
 \$1.23 Estimated cost File98
 \$0.57 0.100 DialUnits File110
 \$0.57 Estimated cost File110
 \$1.14 0.211 DialUnits File135
 \$1.14 Estimated cost File135
 \$0.95 0.153 DialUnits File136

```

$0.95 Estimated cost File136
      $0.81 0.271 DialUnits File143
$0.81 Estimated cost File143
      $6.73 1.495 DialUnits File144
$6.73 Estimated cost File144
      $4.04 1.189 DialUnits File155
      $0.00 1 Type(s) in Format 8
      $0.00 1 Types
$4.04 Estimated cost File155
      $0.37 0.106 DialUnits File164
$0.37 Estimated cost File164
      $1.24 0.111 DialUnits File172
$1.24 Estimated cost File172
      $0.95 0.155 DialUnits File185
$0.95 Estimated cost File185
      $7.47 0.335 DialUnits File357
      $5.20 2 Type(s) in Format 3
      $5.20 2 Types
$12.67 Estimated cost File357
      $0.36 0.104 DialUnits File369
$0.36 Estimated cost File369
      $0.34 0.098 DialUnits File370
$0.34 Estimated cost File370
      $0.00 0.273 DialUnits File391
$0.00 Estimated cost File391
      $6.04 0.257 DialUnits File434
$6.04 Estimated cost File434
      $0.50 0.078 DialUnits File467
$0.50 Estimated cost File467
      OneSearch, 29 files, 14.628 DialUnits FileOS
$5.06 TELNET
$147.88 Estimated cost this search
$147.90 Estimated total session cost 14.843 DialUnits

```

File 411:DIALINDEX(R)

DIALINDEX(R)

(c) 2006 Dialog

```

*** DIALINDEX search results display in an abbreviated ***
*** format unless you enter the SET DETAIL ON command. ***
? s ((hollow (w) electrode) or (hollow (w) microelectrode) or (hollow (w)
fiber (w) electrode) or (capillary (w) electrode) or (capillary (w)
microelectrode)) and (fusion or electrofusion or (selective (w)
electrofusion))
>>>No files selected. Use SET FILES to choose at least two files; then use
      SELECT alone to reissue this SELECT statement.
? b allbiosci
>>>Invalid file or service name: ALLBIOSCI
>>>No valid files specified

```

DIALINDEX(R)

(c) 2006 Dialog

```

*** DIALINDEX search results display in an abbreviated ***
*** format unless you enter the SET DETAIL ON command. ***
? s ((hollow (w) electrode) or (hollow (w) microelectrode) or (hollow (w)
fiber (w) electrode) or (capillary (w) electrode) or (capillary (w)
microelectrode)) and (fusion or electrofusion or (selective (w)
electrofusion))
>>>No files selected. Use SET FILES to choose at least two files; then use

```

SELECT alone to reissue this SELECT statement.

? sf allbiosci

You have 81 files in your file list.

(To see banners, use SHOW FILES command)

? s ((hollow (w) electrode) or (hollow (w) microelectrode) or (hollow (w) fiber (w) electrode) or (capillary (w) electrode) or (capillary (w) microelectrode)) and (fusion or electrofusion or (selective (w) electrofusion))

Your SELECT statement is:

s ((hollow (w) electrode) or (hollow (w) microelectrode) or (hollow (w) fiber (w) electrode) or (capillary (w) electrode) or (capillary (w) microelectrode)) and (fusion or electrofusion or (selective (w) electrofusion))

Items	File
----	----
3	2: INSPEC_1898-2006/Feb W3
1	8: Ei Compendex(R)_1970-2006/Feb W2
1	34: SciSearch(R) Cited Ref Sci_1990-2006/Feb W3
2	94: JICST-EPlus_1985-2006/Nov W4
1	103: Energy SciTec_1974-2006/Jan B2
Examined	50 files
1	399: CA SEARCH(R)_1967-2006/UD=14409

6 files have one or more items; file list includes 81 files.

? b 2,8,34,94,103,399

26feb06 15:13:50 User276741 Session D102.3

\$5.29 1.996 DialUnits File411

\$5.29 Estimated cost File411

\$1.06 TELNET

\$6.35 Estimated cost this search

\$154.25 Estimated total session cost 16.839 DialUnits

SYSTEM:OS - DIALOG OneSearch

File 2:INSPEC 1898-2006/Feb W3

(c) 2006 Institution of Electrical Engineers

***File 2: Archive data back to 1898 has been added to File 2.**

File 8:Ei Compendex(R) 1970-2006/Feb W2

(c) 2006 Elsevier Eng. Info. Inc.

File 34:SciSearch(R) Cited Ref Sci 1990-2006/Feb W3

(c) 2006 Inst for Sci Info

File 94:JICST-EPlus 1985-2006/Nov W4

(c)2006 Japan Science and Tech Corp(JST)

File 103:Energy SciTec 1974-2006/Jan B2

(c) 2006 Contains copyrighted material

***File 103: For access restrictions see Help Restrict.**

File 399:CA SEARCH(R) 1967-2006/UD=14409

(c) 2006 American Chemical Society

***File 399: Use is subject to the terms of your user/customer agreement.**

IPCR/8 classification codes now searchable as IC=. See HELP NEWSIPCR.

Set	Items	Description
---	-----	-----

? s ((hollow (w) electrode) or (hollow (w) microelectrode) or (hollow (w) fiber (w) electrode) or (capillary (w) electrode) or (capillary (w) microelectrode)) and (fusion or electrofusion or (selective (w) electrofusion))

110793 HOLLOW


```

559701 ELECTRODE
  353 HOLLOW (W) ELECTRODE
110793 HOLLOW
 15261 MICROELECTRODE
    0 HOLLOW (W) MICROELECTRODE
110793 HOLLOW
917913 FIBER
559701 ELECTRODE
    8 HOLLOW (W) FIBER (W) ELECTRODE
221584 CAPILLARY
559701 ELECTRODE
    125 CAPILLARY (W) ELECTRODE
221584 CAPILLARY
  15261 MICROELECTRODE
    12 CAPILLARY (W) MICROELECTRODE
554293 FUSION
  1662 ELECTROFUSION
627631 SELECTIVE
  1662 ELECTROFUSION
    3 SELECTIVE (W) ELECTROFUSION
S1      9 ((HOLLOW (W) ELECTRODE) OR (HOLLOW (W) MICROELECTRODE) OR
        (HOLLOW (W) FIBER (W) ELECTRODE) OR (CAPILLARY (W)
        ELECTRODE) OR (CAPILLARY (W) MICROELECTRODE)) AND (FUSION
        OR ELECTROFUSION OR (SELECTIVE (W) ELECTROFUSION))
? s s1 and (cell or liposome or proteoliposome or protoplast or (plant (w)
protoplast) or vesicle or egg or sperm or hybridoma)
    9 S1
3572725 CELL
  45789 LIPOSOME
    725 PROTEOLIPOSOME
  15712 PROTOPLAST
2305640 PLANT
  15712 PROTOPLAST
    482 PLANT (W) PROTOPLAST
  59742 VESICLE
 140027 EGG
  80141 SPERM
  15495 HYBRIDOMA
S2      0 S1 AND (CELL OR LIPOSOME OR PROTEOLIPOSOME OR PROTOPLAST
        OR (PLANT (W) PROTOPLAST) OR VESICLE OR EGG OR SPERM OR
        HYBRIDOMA)
? s s1 not pd>990730
>>>One or more prefixes are unsupported
>>> or undefined in one or more files.
>>>File 34 processing for PD=990730 : PD=|
>>> started at PD=19990731 stopped at PD=20041230
>>>File 103 processing for PD=990730 : PD=|
>>> started at PD=19990731 stopped at PD=20020805
    9 S1
  5910192 PD>990730
S3      9 S1 NOT PD>990730
? rd
S4      7 RD (unique items)
? t s4/free/all
>>>"FREE" is not a valid format name in file(s): 399

```

4/8/1 (Item 1 from file: 2)

DIALOG(R) File 2:(c) 2006 Institution of Electrical Engineers. All rts.
reserv.

07122474 INSPEC Abstract Number: A1999-03-5275-007, B1999-02-8370-023

Title: Low-pressure pseudospark switches for ICF pulsed power

Publication Date: 21 Sept. 1998

Document Number: S0168-9002(98)00403-3 Document Type: Conference Paper (PA); Journal Paper (JP)

Treatment: Experimental (X)

Descriptors: arcs (electric); ion accelerators; particle beam **fusion** accelerators; plasma inertial confinement; plasma switches; pulsed power switches

Identifiers: low-pressure pseudospark switches; ICF pulsed power; inertial confinement **fusion** pulsed power; ICF drivers; inertial confinement **fusion** drivers; high-current plasma switches; **hollow - electrode** pseudospark; cold cathode emission; charge-transfer capability; Marx modules; voltage adders; heavy ion ICF; 100 kV

Class Codes: A5275K (Plasma switches); A2921 (Beams in particle accelerators); A5280M (Arcs and sparks); B8370 (Switchgear); B2315 (Gas discharges); B7410B (Particle beam handling and diagnostics); B2180B (Relays and switches)

Numerical Indexing: voltage 1.0E+05 V

Copyright 1999, FIZ Karlsruhe

4/8/2 (Item 2 from file: 2)

DIALOG(R)File 2:(c) 2006 Institution of Electrical Engineers. All rts. reserv.

03894677 INSPEC Abstract Number: A87069434

Title: Preliminary results of the POSEIDON plasma focus in the operating regime above 300 kJ

Publication Date: 1986

Document Type: Conference Paper (PA)

Treatment: Experimental (X)

Descriptors: neutron sources; pinch effect; plasma diagnostic techniques; plasma diagnostics; plasma focus; plasma sheaths

Identifiers: spatial structure; POSEIDON plasma focus; efficiency; neutron source; **fusion** reaction mechanisms; temporal structure; operating regime; focus discharge characteristics; geometrical parameters; optical monitoring; sheath velocity; integrated X-ray pinhole pictures; interferometric measurements; pinch diameter; neutron measurements; pinch lifetime; 60 to 80 kV; 280 to 500 kJ; 131 to 208 mm

Class Codes: A5255E (Pinch effect and pinch machines); A5270K (Optical (ultraviolet, visible, infrared) techniques); A5270N (Particle techniques); A5275 (Plasma devices and applications)

Numerical Indexing: voltage 6.0E+04 to 8.0E+04 V; energy 2.8E+05 to 5.0E+05 J; wavelength 1.31E-01 to 2.08E-01 m

4/8/3 (Item 3 from file: 2)

DIALOG(R)File 2:(c) 2006 Institution of Electrical Engineers. All rts. reserv.

01784273 INSPEC Abstract Number: B75027587

Title: Investigation of some technological properties of a vacuum arc with a hollow nonconsumable electrode

Publication Date: 1974

Document Type: Journal Paper (JP)

Treatment: Experimental (X)

Descriptors: arc welding

Identifiers: technological properties; vacuum arc; hollow nonconsumable electrode; arc discharge; welding

Class Codes: B8620 (Manufacturing industries)

4/8/4 (Item 1 from file: 94)

DIALOG(R)File 94:(c)2006 Japan Science and Tech Corp(JST). All rts.
reserv.

05323371 JICST ACCESSION NUMBER: 03A0012103 FILE SEGMENT: JICST-E
**Characteristics of Hollow Cathode Arc as Heat Source. Application of Hollow
Cathode Arc to Welding of Aluminum Alloy., 2002**

DESCRIPTORS: welding electrode; TIG welding; welding heat input; welding
power source; aluminum base alloy; hollow body; thorium oxide; argon;
pure metal; aluminum; oxide film; thermal plasma; electron temperature;
centralization; melting; crater; penetration(welding); circular cone;
space environment; case study; plasma column; basic research; welding
torch; negative electrode; weld shielding gas; weld bead

BROADER DESCRIPTORS: electrode; inert gas shielded arc welding; gas
shielded arc welding; arc welding; electric welding; welding; bonding
and joining; **fusion** welding; welding condition; condition; electric
power source equipment; equipment; light alloy; nonferrous alloy; alloy
; metallic material; solid(cubic); metal oxide; oxide; chalcogenide;
oxygen group element compound; oxygen compound; thorium compound;
actinide compound; transition metal compound; rare gas; element; third
row element; metal; metallic element; 3B group element; conversion
coating film; film(cover); membrane and film; plasma; plasma
temperature; temperature; plasma parameter; parameter; modification;
phase transition; morphology; cone; environment; research; torch;
protective gas; gas; atmosphere(environment); welding material; weld
metal; weld zone; joint(part); part

CLASSIFICATION CODE(S): WC07110T; WC07030G

4/8/5 (Item 2 from file: 94)

DIALOG(R)File 94:(c)2006 Japan Science and Tech Corp(JST). All rts.
reserv.

02090005 JICST ACCESSION NUMBER: 94A0781129 FILE SEGMENT: JICST-E
Electrode Lifetimes in a Plasma Focus Soft X-Ray Source., 1994

DESCRIPTORS: electrode; erosion(wear); plasma focus; X-ray source; soft
X-ray; lifetime; polarity; insulating material; plasma focus device
BROADER DESCRIPTORS: erosion(corrosion); corrosion; radiation source; X-ray
; electromagnetic wave; wave motion; radioactive ray; property;
material; nuclear **fusion** device; plasma device; equipment

CLASSIFICATION CODE(S): BJ02082I

4/8/6 (Item 1 from file: 103)

DIALOG(R)File 103:(c) 2006 Contains copyrighted material. All rts. reserv.

01847778 AIX-17-053214; EDB-86-171667

**Title: Dynamic strength investigation of reactor chamber elements of the
ANGARA-5 facility**

**Title: Reports of 3. All-union conference on engineering problems of
thermonuclear reactors. Vol. 4**

Original Title: Doklady tret'ej Vsesoyuznoj konferentsii po inzhenernym
problemam termoyadernykh reaktorov. Tom 4

Publication Date: 1984

Major Descriptors: *ELECTRON BEAM **FUSION** REACTORS -- ELECTRODES

Descriptors: CONICAL CONFIGURATION; DYNAMIC LOADS; ELASTICITY; IMPULSE
APPROXIMATION; RELATIVISTIC RANGE; SHOCK WAVES; SIMULATION; SPATIAL
DISTRIBUTION; STRAINS; THERMONUCLEAR EXPLOSIONS

Broader Terms: CONFIGURATION; DISTRIBUTION; ENERGY RANGE; EXPLOSIONS;
MECHANICAL PROPERTIES; NUCLEAR EXPLOSIONS; TENSILE PROPERTIES;
THERMONUCLEAR REACTORS

Subject Categories: 700208* -- Fusion Power Plant Technology -- Inertial
Confinement Technology

INIS Subject Categories: A1427* -- Fusion power plant technology --
Inertial confinement technology

? save temp

Temp SearchSave "TD195082237" stored

? logoff

26feb06 15:15:29 User276741 Session D102.4
\$1.70 0.190 DialUnits File2
\$0.00 3 Type(s) in Format 8
\$0.00 3 Types
\$1.70 Estimated cost File2
\$1.52 0.166 DialUnits File8
\$1.52 Estimated cost File8
\$16.65 0.709 DialUnits File34
\$16.65 Estimated cost File34
\$0.46 0.133 DialUnits File94
\$0.00 2 Type(s) in Format 8
\$0.00 2 Types
\$0.46 Estimated cost File94
\$1.14 0.188 DialUnits File103
\$0.00 1 Type(s) in Format 8
\$0.00 1 Types
\$1.14 Estimated cost File103
\$6.58 0.525 DialUnits File399
\$6.58 Estimated cost File399
OneSearch, 6 files, 1.910 DialUnits FileOS
\$0.53 TELNET
\$28.58 Estimated cost this search
\$182.83 Estimated total session cost 18.750 DialUnits

Logoff: level 05.10.03 D 15:15:29

You are now logged off

10/031,410
LLM 2/26/2006

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	158	((hollow adj electrode) or (hollow adj microelectrode) or (hollow adj fiber adj electrode) or (capillary adj electrode)) and (fusion or electrofusion or (selective adj electrofusion))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/26 14:37
L2	40	L1 and (cell or liposome or proteoliposome or protoplast or (plant adj protoplast) or vesicle or egg or sperm or hybridoma)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/26 14:38
L3	10	L2 and @ad<"19990713"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/26 09:27
L4	17	L2 and @ad<"20000713"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/26 09:27
L5	11	L2 and @ad<"19990730"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/26 14:37
L6	2	L2 and microchip	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/26 14:35
L7	0	L4 and microchip	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/26 09:32
L8	0	L5 and microchip	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/26 09:33
L9	19	L2 and (electroendoosmosis or electrophoresis or poiseuille)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/26 09:37

EAST Search History

L10	9	L4 and (electroendoosmosis or electrophoresis or poiseuille)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/26 09:35
L11	4	L5 and (electroendoosmosis or electrophoresis or poiseuille)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/26 09:40
L12	16	L2 and ((optical adj trapping) or (optical adj trap) or micropipette)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/26 09:37
L13	3	L12 and @ad<"19990730"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/26 09:38
L14	3	L5 and (electroporate or electroporation or dielectrophoretic or dielectrophoresis)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/26 09:41
L15	0	L5 and (fusogenic)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/26 09:42
L16	0	L5 and (hybridoma or ((membrane or lipid) adj composition) or pharmaceutical\$)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/26 09:44
L17	2	L1 and microchip	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/26 14:35
L18	1537	microchip and (fusion or electrofusion or (selective adj electrofusion))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/26 14:39
L19	182	L18 and @ad<"19990730"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/26 14:39

EAST Search History

L20	52	L19 and electrode	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/26 14:39
L21	1299	L18 and (cell or liposome or proteoliposome or protoplast or (plant adj protoplast) or vesicle or egg or sperm or hybridoma)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/26 14:39
L22	9235	(microchip or microarray) and (fusion or electrofusion or (selective adj electrofusion))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/26 14:47
L23	8961	L22 and (cell or liposome or proteoliposome or protoplast or (plant adj protoplast) or vesicle or egg or sperm or hybridoma)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/26 14:39
L24	493	L23 and @ad<"19990730"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/26 14:47
L25	47	L24 and electrode	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/26 14:39
L26	20	(microchip or microarray) and (electrofusion or (selective adj electrofusion))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/26 14:47
L27	1	L26 and @ad<"19990730"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/26 14:47
S1	112	"4994384"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/24 15:57
S2	0	"4994384.pn."	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/24 15:57

EAST Search History

S3	2	"4994384".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/24 16:06
S4	3	"4970154".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/24 16:15
S5	2	"6020170".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/24 16:18
S6	2	"6041252".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/24 16:22
S7	2	"6010613".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/24 16:23
S8	3429	(hollow adj electrode) or (hollow adj microelectrode) or (capillary adj electrode)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/24 17:06
S9	158	S8 and (fusion or electrofusion)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/24 16:45
S10	53	S9 and @ad<"19990713"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/26 09:10
S11	39	S9 and (cell or liposome or vesicle or egg)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/26 09:08
S12	10	S11 and @ad<"19990713"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/24 16:32

EAST Search History

S13	3004	(hollow adj electrode) or (hollow adj microelectrode)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/24 16:45
S14	122	S13 and (fusion or electrofusion)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/24 17:02
S15	14	S14 and (cell or liposome or vesicle or egg)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/24 16:46
S16	3023	(hollow adj electrode) or (hollow adj microelectrode) or (hollow adj fiber adj electrode)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/26 09:05
S17	122	S16 and (fusion or electrofusion)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/24 17:07
S18	14	S17 and (cell or liposome or vesicle or egg)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/24 17:03
S19	40	S9 and (cell or liposome or vesicle or egg or sperm or (fusion adj partner))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/24 17:07
S20	10	S19 and @ad<"19990713"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/24 17:08
S21	432	S16 and (cell or liposome or vesicle or egg or sperm or (fusion adj partner))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/24 17:22
S22	14	S21 and (fusion or electrofusion)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/24 17:07

EAST Search History

S23	3	S22 and @ad<"19990713"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/24 17:08
S24	0	S22 and @ad<"2000713"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/24 17:09
S25	5	S22 and @ad<"20000713"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/24 17:20
S26	4	S16 and microchip	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/24 17:22
S27	3	S26 and (cell or liposome or vesicle or egg or sperm or (fusion adj partner))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/24 17:22
S28	1	S17 and microchip	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/26 09:32